



Barnard

VT 12 Bridge 25

Barnard ER BRF 0241(39)

Project Location: Town of Barnard in Windsor County on VT 12 over Locust Creek. The bridge is located approximately 4 miles south of the intersection of VT 12 and VT 107 in Bethel.

The Barnard VT 12 Bridge 25 project will replace the existing temporary bridge, which was erected in October 2011 after the collapse of the old bridge during the Tropical Storm Irene event, with a new bridge that meets current design standards. The preexisting bridge structure was 41-feet in length and 30-feet wide.

The Vermont Agency of Transportation evaluated alternatives for replacement of Barnard VT 12 Bridge 25 and presented the proposed replacement structure at a public forum in May 2013. This design addresses the span length required to allow for adequate hydraulic capacity. The old bridge, at 41 feet, created a constriction in the river which aided in its collapse. As a result of the new bridge span, the waterway area will be increased by 65%.

The new bridge will be a Precast Prestressed Concrete NEXT Beam Bridge supported on piles, which has a relatively short construction period and comparatively low construction and maintenance costs. The new bridge will be 88 feet in length and 34 feet wide including two 11' travel lanes and two 4' shoulders. The new bridge will feature a 3 rail box beam bridge rail with a box beam approach rails terminating beyond the bridge.

The bridge will be constructed this summer using Accelerated Bridge Construction methods, which will expedite construction and reduce disturbance to the public. The bridge is scheduled to be closed from June 20, 2014 through July 18, 2014 to remove the existing temporary bridge and construct the new one. The North Road through Bethel, Royalton and Barnard will be the signed detour for VT 12 during the four week closure period. Construction activities will take place prior to and after the closure in order to complete the project on time.

PROJECT MILESTONES

Preliminary Plans
Winter 2013
Permitting
Spring 2013
Final Design
Fall 2013
Right-of-Way Complete
N/A
Bid Advertisement
Fall 2013
Contract Award
Late Fall 2013
Target Construction Schedule
Closure June 20 - July 18



Tropical Storm Irene



Target Construction Schedule: Construction activities will take place beginning in June 2014. The allowable bridge closure period is one 4 week period scheduled for June 20, 2014 through July 18, 2014. The contract is scheduled to be completed by August 29, 2014.

Contractor: Miller Construction, Inc.

Cost: The low bidder was Miller Construction, Inc. at \$1,170,248.00.

VTrans Project Manager: Kristin Higgins

VTrans Resident Engineer: Pete Hodgson

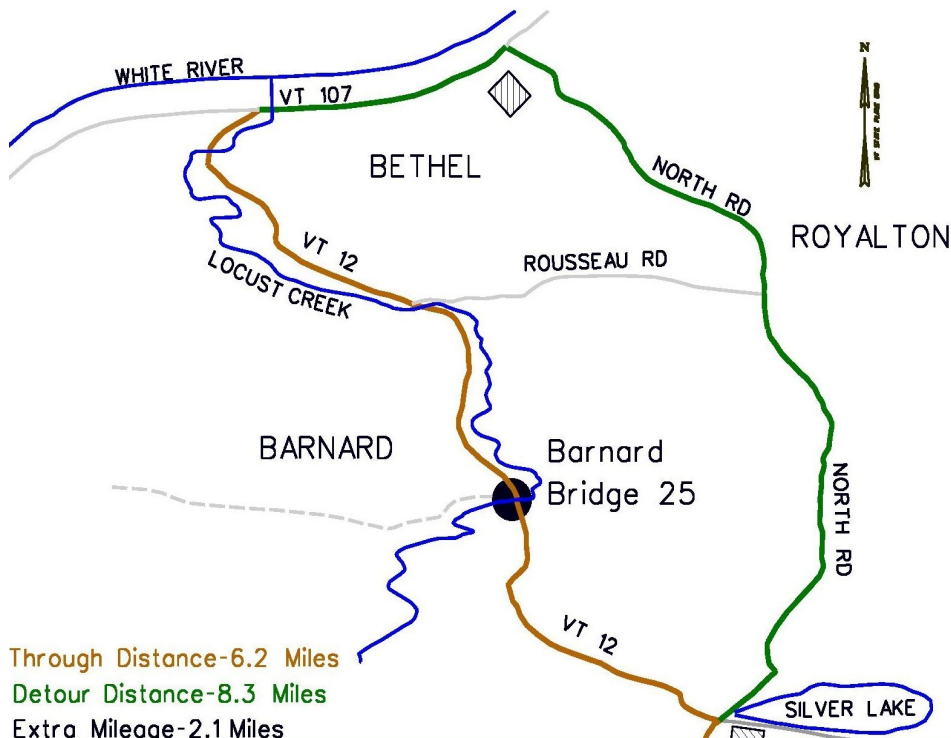
Detour Route: During construction, traffic will be rerouted onto the North Road in Bethel through Royalton and Barnard.

From the East:

Take Route 107 west from I89 towards Bethel. Stay Left on Route 107 in Bethel and go over the large truss bridge. Take a left onto the North Road at the Harrington House Tavern and Restaurant. Stay on the North Road until it intersects VT Route 12 in Barnard at the Barnard General Store.

From the West:

Stay on Route 107 past the intersection of Route 12 South. Take a right onto the North Road at Harrington House Tavern and Restaurant. Stay on the North Road until it intersects VT Route 12 in Barnard at the Barnard General Store.



Through Distance-6.2 Miles

Detour Distance-8.3 Miles

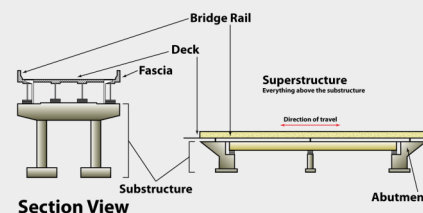
Extra Mileage-2.1 Miles



VT 107/North Road Intersection in Bethel, Vermont. Looking West



North Road/VT 12 Intersection in Barnard, Vermont. Looking South



Generic Bridge Element Description



<https://www.facebook.com>



<https://twitter.com/511VT>